DRAFT: Westlake Air Monitoring Recon Summary (4/10/14):

Discussion items for 4/11/14 conference call: Ex. 6 - Personal Privacy *pass code is:* Ex. 6 - Personal Privacy

Developing an air monitoring plan to sample for landfill constituents (COC's, Radiation). **The goal is to have the contracts in place, equipment ordered, set-up, calibrated, tested and running NLT the week of 21 - 25 April 2014.**

Five air monitoring locations: Access agreement have been signed. **Location # 1** - Robertson Fire Protection District, 3820 Taussig Road, Bridgeton, MO (314) 291-6670. Monitoring station and EPA office trailer set up here. **Location # 2** - Pattonville Fire Department, 13900 St. Charles Rock Road, Bridgeton, MO 63044 (314) 739-3118. **Location #3** - Pattonville Fire Department, 3365 McKelvey Road, Hazelwood, MO 63044 (314) 739-3310. **Location #4** - St. Charles Fire Department, 1550 South Main Street, St. Charles, MO 63303 (636) 949-3384. **Location #5** - Spanish Village Park, 12827 Spanish Village Drive, Bridgeton, MO 63044 (314) 291-8643. **Tentative location #** (to replace one of the above stations) – EPA will co-locate with MDNR.

Radiation Monitoring – TLD's – 3; Particulate Monitors – 1; E-Perms – 3; ECAM – 1. Air Monitoring – AreaRae: model 5020 / 5120 (will have to interact with VIPER).

What is our time frames for set-up / work / results / data interpretation & storage?
Cost / travel / salary / support / equipment delivery

AreaRae / ECAMS / Viper / software: Can they be integrated to "talk" with one another?
Storage format for data and is it retrievable (data management)

Data management; Interpretation / analysis / QC / what parameters do we report?
Health information / Formats

TLDs: Monthly monitors that utilize Optically Stimulated Luminescence for lower detection limits. We will need to determine if the dose is reported with or without natural background. First check the variability of the co-located results. IF the values of natural background are reported we will identify any stations greater than 3 sigma. IF the values have natural background subtracted we will use the 10 mrem/yr as a Yellow limit and 1,000 mrem/yr as the RED limit.

Particulate Monitors: To be analyzed by a contract lab for alpha and beta. Results will be compared the lower of: the NRC 10CFR20 Derived Air Concentration, or the Superfund PRGs for inhalation and used as the YELLOW limit. The RED limit is being developed by Scott Telofski and derived from the EPA Protective Action Guide (PAG) manual.

E-Perms: To be read weekly. First check the variability of the co-located results, then compare the results with barometric pressure readings. Compare the average measurements from each station and use 3 sigma as the YELLOW limit. Use the EPA's recommended residential level of 4 pCi/L as the RED limit.

Gamma Tracer: Averaged hourly as uR/hr. Use approximately 100 uR/hr as the YELLOW limit and investigate the reading with a field instrument to see if it's reproducible, take a confirmatory contamination smear on a nearby flat surface. Use approximately 2,000 uR/hr as the RED limit representing the NRC public dose limit.

ECAM: We will need to see if this is applicable for Th-230. If it is then we will consider this a near real-time data collection as a substitute for the Gamma Tracer. The YELLOW limit will be the lower of: the NRC 10CFR20 Derived Air Concentration, or the Superfund PRGs for inhalation. The RED limit will be developed by Scott Telofski and derived from the EPA Protective Action Guide (PAG) manual.

At this time, all questions, issues, and concerns are valid. Please be prepared to give me your honest opinions. However, this will be done (i.e. *this is a TOP priority of the Karl Brooks, Regional Administrator & the Missouri Attorney General's Office*) and in a short time frame as well.

My documents/Westlake/Draft Westlake Air Monitoring Recon Summary.04102014.docx